

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Tetsunori KODA et al.

Application No.: 10/665,016

Filed: September 22, 2003

Docket No.: 117223

For: MAGNETIC RECORDING MEDIUM AND MAGNETIC RECORDING APPARATUS

INFORMATION DISCLOSURE STATEMENT

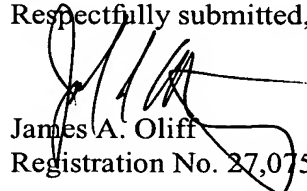
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Pursuant to 37 CFR §1.56, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO-1449. Unless otherwise indicated herein, one copy of each reference is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

- ☒ 1. This Information Disclosure Statement is being filed (a) within three months of the U.S. filing date of this non-CPA application, OR (b) before the mailing date of a first Office Action on the merits in the present application. No certification or fee is required.
- ☒ 2. English-language Abstracts of the non-English language references are attached hereto. (Refs. 1-7)
- ☒ 3. Computer-generated English translations of the following Japanese Patent Publications have been obtained from the website of the Japanese Patent Office (<http://www.jpo.go.jp>), and are attached, but have not been reviewed for accuracy. See References 1-7.

Respectfully submitted,

  
James A. Oliff  
Registration No. 27,075

Joel S. Armstrong  
Registration No. 36,430

JAO:JSA/amo

Date: December 5, 2003

**OLIFF & BERRIDGE, PLC**  
**P.O. Box 19928**  
**Alexandria, Virginia 22320**  
**Telephone: (703) 836-6400**

<p>DEPOSIT ACCOUNT USE AUTHORIZATION Please grant any extension necessary for entry; Charge any fee due to our Deposit Account No. 15-0461</p>
--

Form PTO-1449 (REV. 8-83)		US Dept. of Commerce PATENT & TRADEMARK OFFICE		ATTY DOCKET NO. 117223		APPLICATION NO. 10/665,016	
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)				APPLICANTS Tetsunori KODA et al.			
				FILING DATE September 22, 2003			
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	
	1	JP A 2002-269731 w/abst & trans	09/20/2002	Japan			
	2	JP A 2002-100030 w/abst & trans	04/05/2002	Japan			
	3	JP A 2002-197620 w/abst & trans	07/12/2002	Japan			
	4	JP A 2002-63714 w/abst & trans	02/28/2002	Japan			
	5	JP A 2001-229527 w/abst & trans	08/24/2001	Japan			
	6	JP A 2001-222809 w/abst & trans	08/17/2001	Japan			
	7	JP A 2002-230735 w/abst & trans	08/16/2002	Japan			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)							
	8	Soichi Oikawa et al.; "High Performance CoPtCrO Single Layered Perpendicular Media with No Recording Demagnetization." IEEE Transactions on Magnetism, Vol. 36, No. 5; September 2000					
	9	Yoshiyuki Hirayama et al.; "Low Noise Performance of CoCrPt Single-Layer Perpendicular Magnetic Recording Media." IEEE Transactions on Magnetism, Vol. 36, No. 5; September 2000					
	10	Yukiko Kubota et al.; "Development of CoX/Pd multilayer perpendicular magnetic recording media with granular seed layers." Journal of Magnetism and Magnetic Materials 242-245 (2002) 297-303					
	11	M. Futamoto et al.; "Improvement of initial growth layer in CoCr-alloy thin film media." Journal of Magnetism and Magnetic Materials 226-230 (2001) 1610-1612					
EXAMINER					DATE CONSIDERED		
Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

Date: December 5, 2003

APPENDIX  
RELATED ART INFORMATION LIST

Name of Document		Date of Publication or Patent (dd/mm/yyyy)	Remarks
Office Action of Japanese Patent Application	2002-379436	18-Nov-2003	Japanese Patent Application No. 2002-379436 is a corresponding application to this US Patent application.
Japanese Patent Application Laid-open	2002-269731	20-Sep-2002	Cited in the Office Action of Japanese Patent Application No. 2002-379436. English translation of the abstract is attached.
Japanese Patent Application Laid-open	2002-100030	05-Apr-2002	Cited in the Office Action of Japanese Patent Application No. 2002-379436. English translation of the abstract is attached.
Japanese Patent Application Laid-open	2002-197620	12-Jul-2002	Cited in the Office Action of Japanese Patent Application No. 2002-379436. English translation of the abstract is attached.
Japanese Patent Application Laid-open	2002-63714	28-Feb-2002	Cited in the Office Action of Japanese Patent Application No. 2002-379436. English translation of the abstract is attached.
Japanese Patent Application Laid-open	2001-229527	24-Aug-2001	Cited in the Office Action of Japanese Patent Application No. 2002-379436. English translation of the abstract is attached.

APPENDIX  
RELATED ART INFORMATION LIST

Name of Document	Date of Publication or Patent (dd/mm/yyyy)	Remarks
Japanese Patent Application 2001-222809 Laid-open	17-Aug-2001	Cited in the Office Action of Japanese Patent Application No. 2002-379436. English translation of the abstract is attached.
High Performance CoPtCrO Single Layered Perpendicular Media with No Recording Demagnetization	IEEE TRANSACTIONS ON MAGNETICS, VOL.36, No.5, P.2393-2395	Cited in the Office Action of Japanese Patent Application No. 2002-379436.
Low Noise Performance of CoCrPt Single-Layer Perpendicular Magnetic Recording Media	IEEE TRANSACTIONS ON MAGNETICS, VOL.36, No.5, P.2396-2398	Cited in the Office Action of Japanese Patent Application No. 2002-379436.
Development of CoX/Pd multilayer perpendicular magnetic recording media with granular seed layers	Journal of Magnetism and Magnetic Materials, 242-245 (2002), P.297-303	Cited in the Office Action of Japanese Patent Application No. 2002-379436.
Improvement of initial growth layer in CoCr-alloy thin film media	Journal of Magnetism and Magnetic Materials, 226-230 (2001), P.1610-1612	Cited in the Office Action of Japanese Patent Application No. 2002-379436.
Japanese Patent Application 2002-230735 Laid-open	16-Aug-2002	Cited in the Office Action of Japanese Patent Application No. 2002-379436. English translation of the abstract is attached.